

**09/719399****IN THE SPECIFICATION:**

Please add the following Abstract:

**ABSTRACT**

A method and system for watermarking software is disclosed. In one aspect, the method and system include providing an input sequence and storing a watermark in the state of a software object as the software object is being run with the input sequence. In another aspect, the method and system verify the integrity or origin of a program by watermarking the program. The watermark is stored as described above. In this aspect, the method and system also include building a recognizer concurrently with the input sequence and the watermark. The recognizer can extract the watermark from other dynamically allocated data and is kept separately from the program. The recognizer is adapted to check for a number. In another aspect, the software is watermarked by embedding a watermark in a static string and applying an obfuscation technique to convert the static string into executable code. In another aspect, the watermark is chosen from a class of graphs having a plurality of members and applied to the software. Each member of the class of graphs has at least one property that is capable of being tested by integrity-testing software.

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